08361 10/076068

FIG.

--

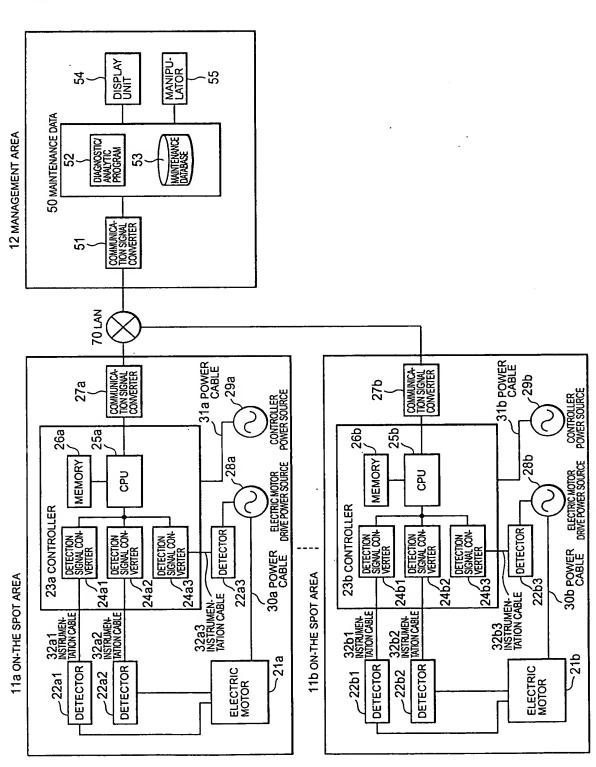


FIG. 2

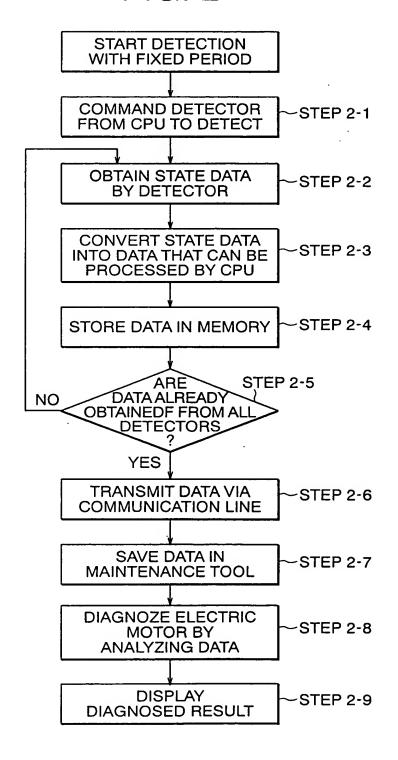
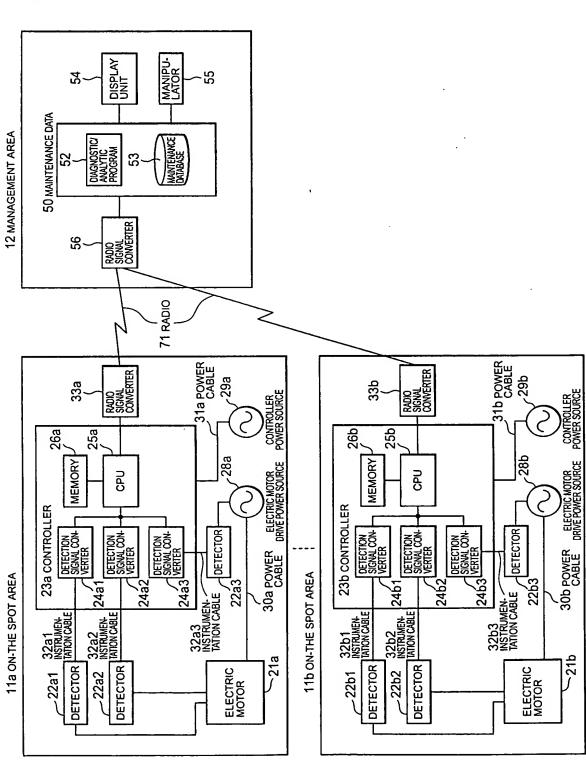


FIG. 3



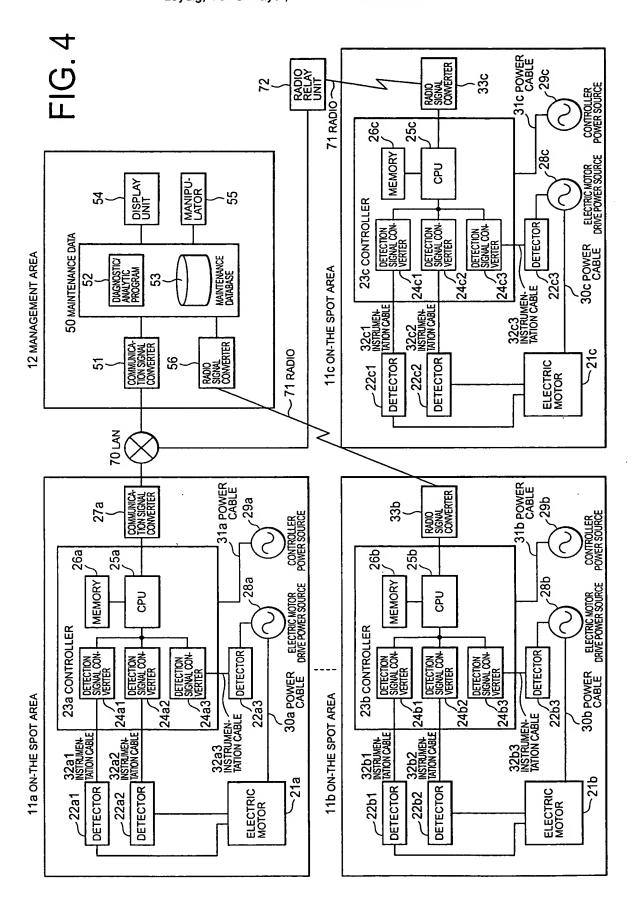


FIG. 5

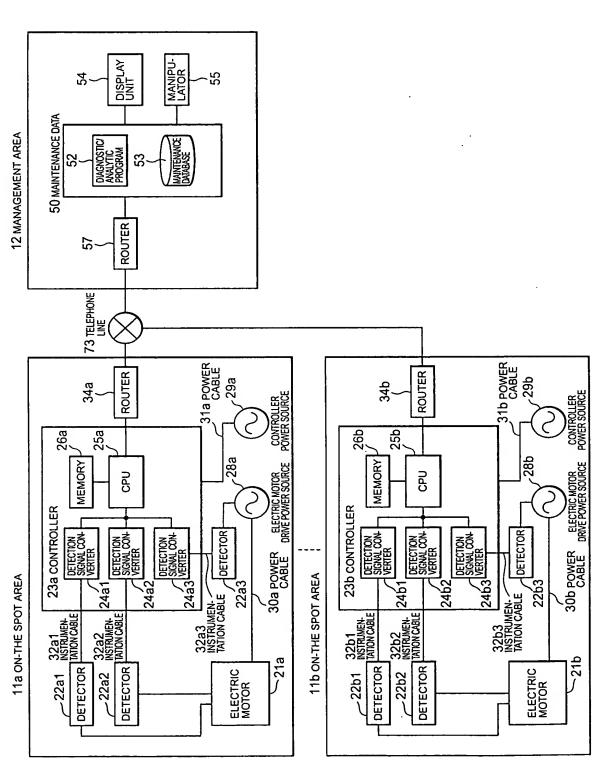
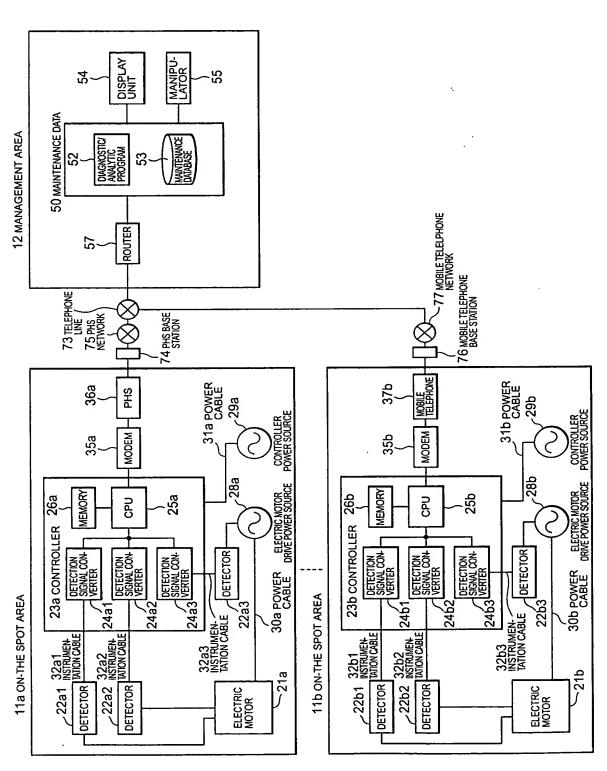
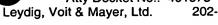
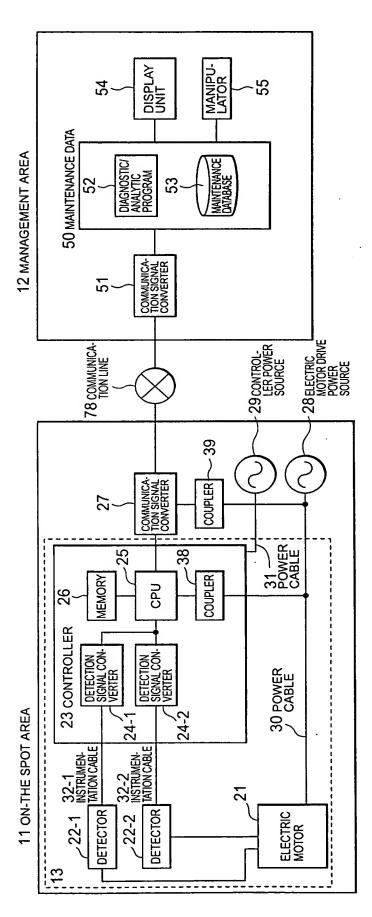


FIG. 6



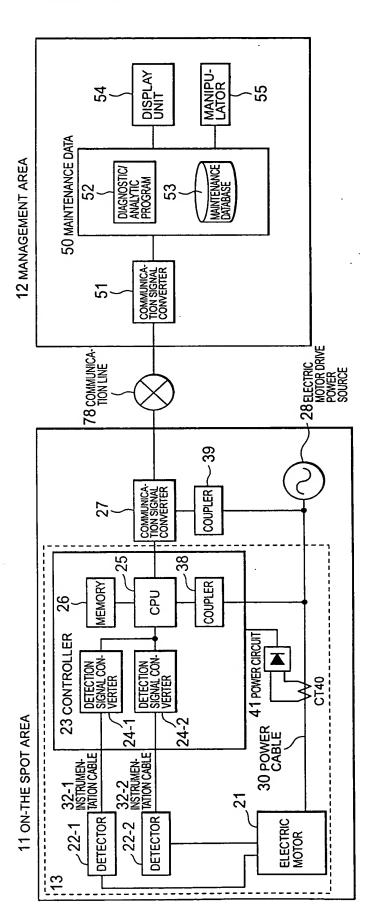
Title: STATE-OF-DEVICE REMOTE MONITOR SYSTEM Inventors: Takayuki HATTORI, et al. Atty Docket No.: 401573 202-737-6770





Title: STATE-OF-DEVICE REMOTE MONITOR SYSTEM Inventors: Takayuki HATTORI, et al. Atty Docket No.: 401573 202-737-6770

Leydig, Voit & Mayer, Ltd.

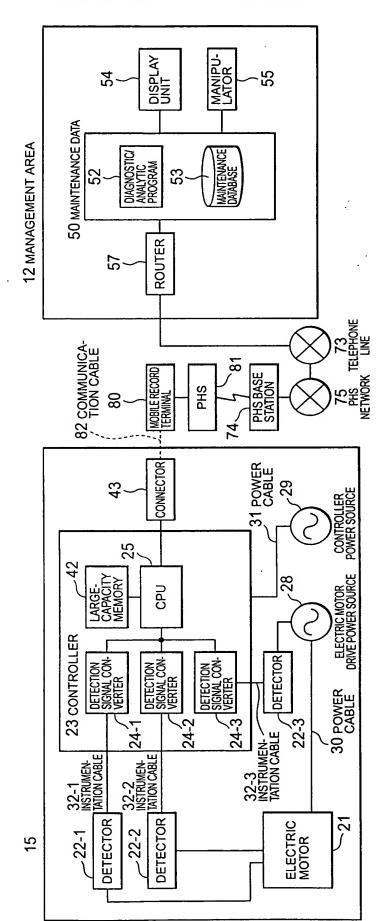


DISPLAY 55 50 MAINTENANCE DATA 12 MANAGEMENT AREA DIAGNOSTIC/ ANALYTIC PROGRAM 52 79 TRAIN RADIO 31 POWER CABLE 25 ELECTRIC MOTOR DRIVE POWER SOURCE SPU 23 CONTROLLER DETECTION SIGNAL CON-VERTER DETECTION SIGNAL CON-VERTER DETECTOR 30 POWER CABLE 32-2 INSTRUMEN-TATION CABLE ELECTRIC MOTOR 2 DETECTOR DETECTOR 4

FIG. 9

Title: STATE-OF-DEVICE REMOTE MONITOR SYSTEM Inventors: Takayuki HATTORI, et al. Atty Docket No.: 401573 202-737-6770

Leydig, Voit & Mayer, Ltd.



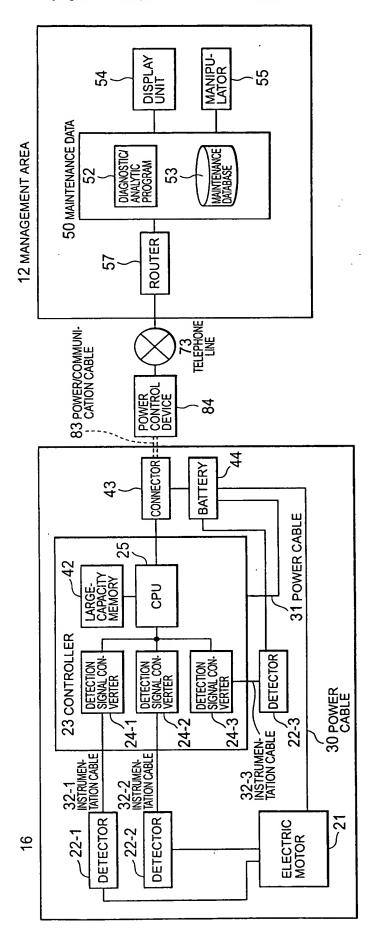


FIG 11



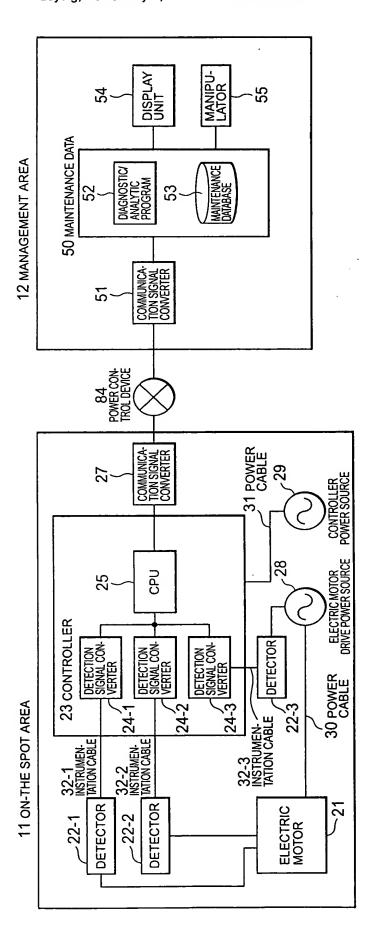


FIG. 13

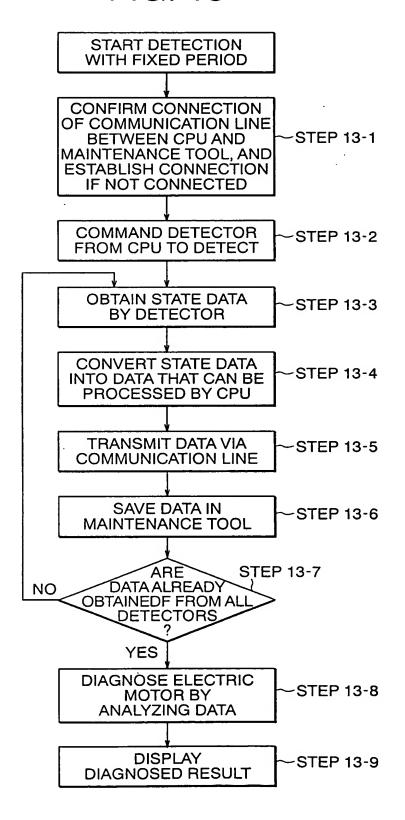


FIG. 14

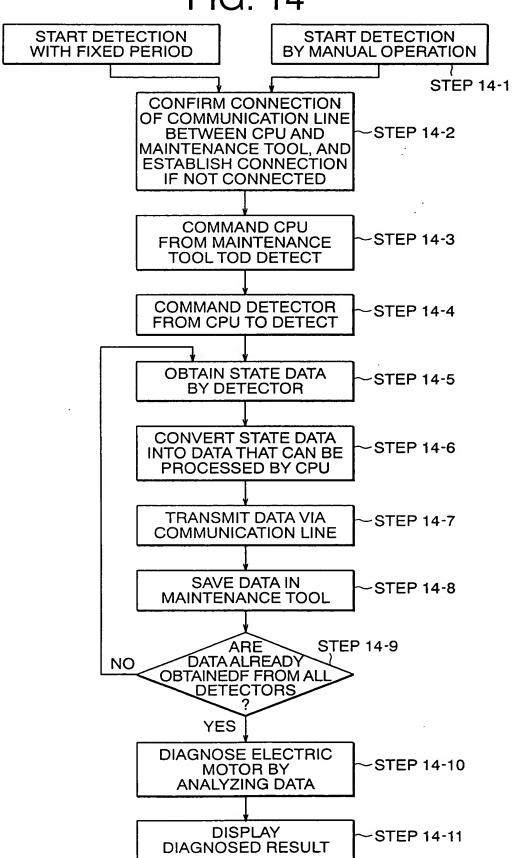
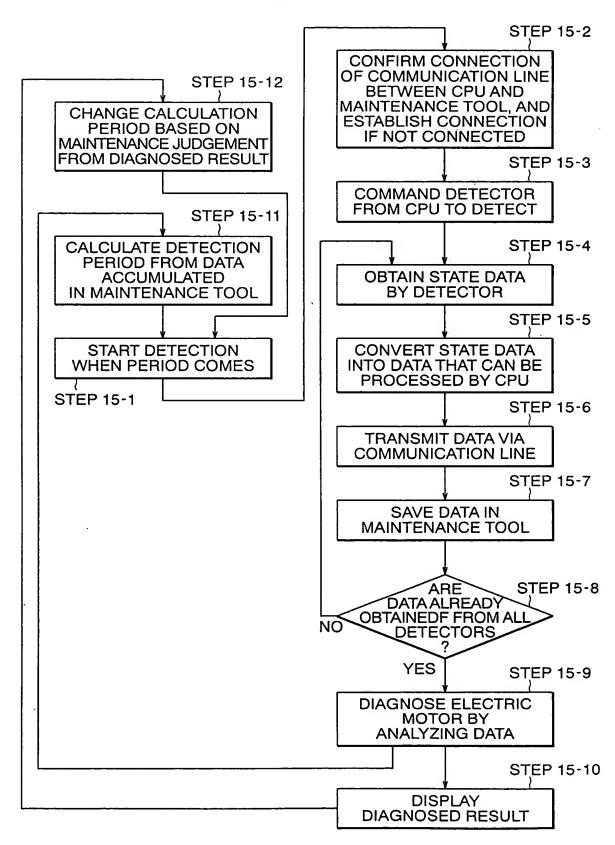


FIG. 15



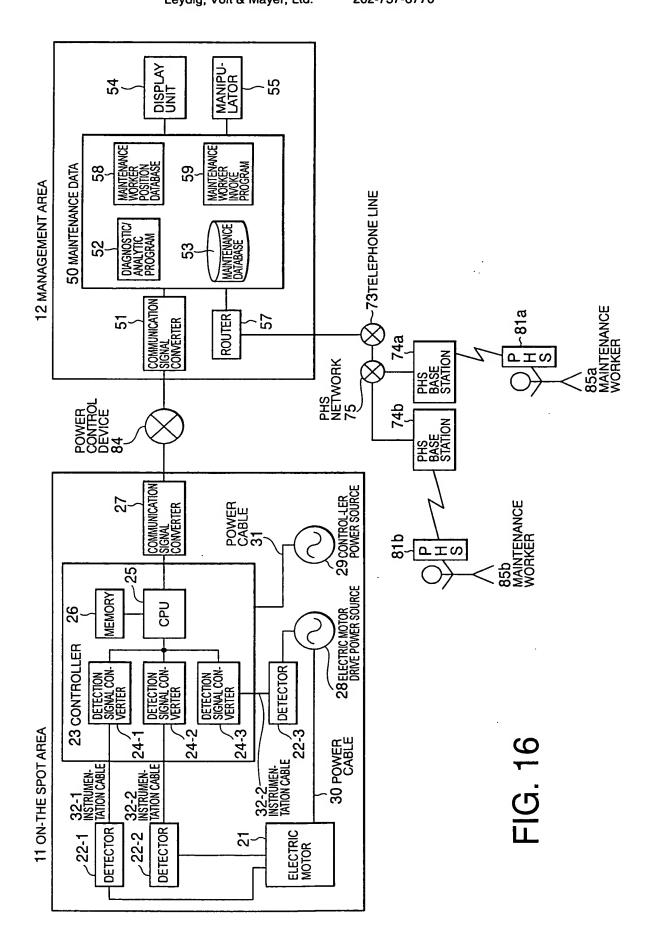
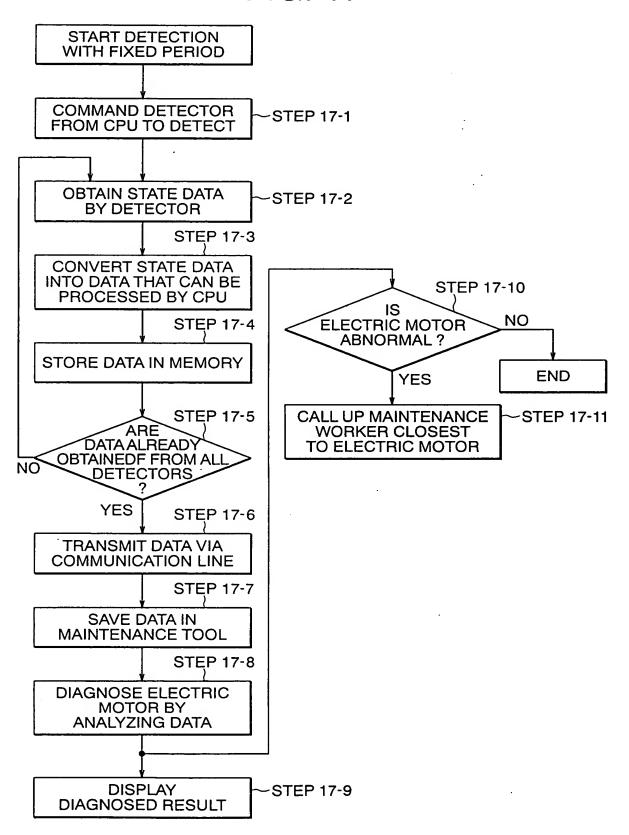


FIG. 17



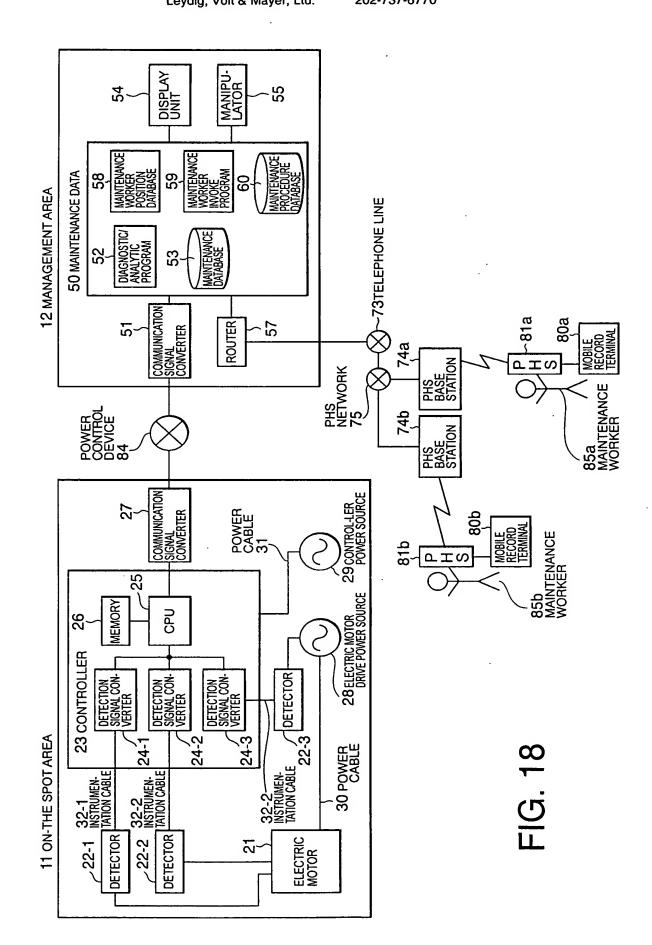
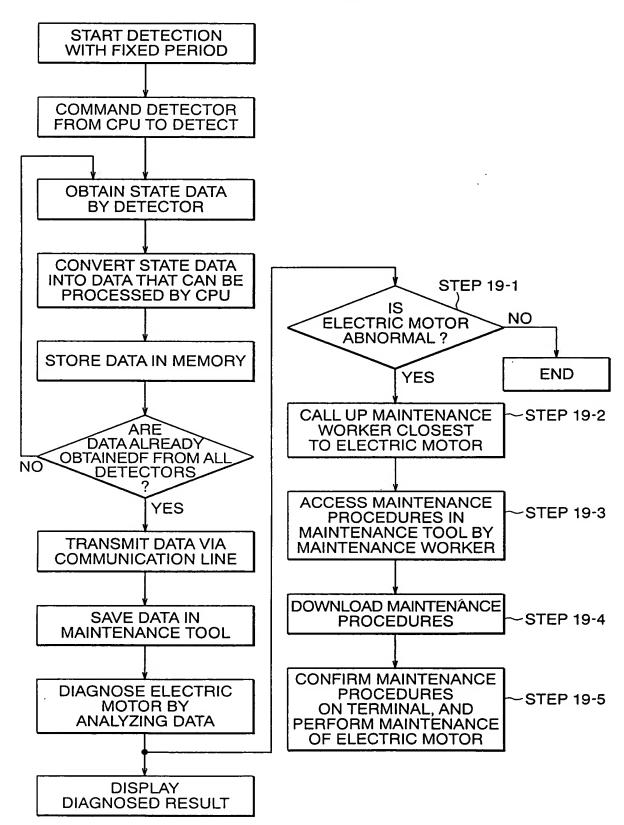
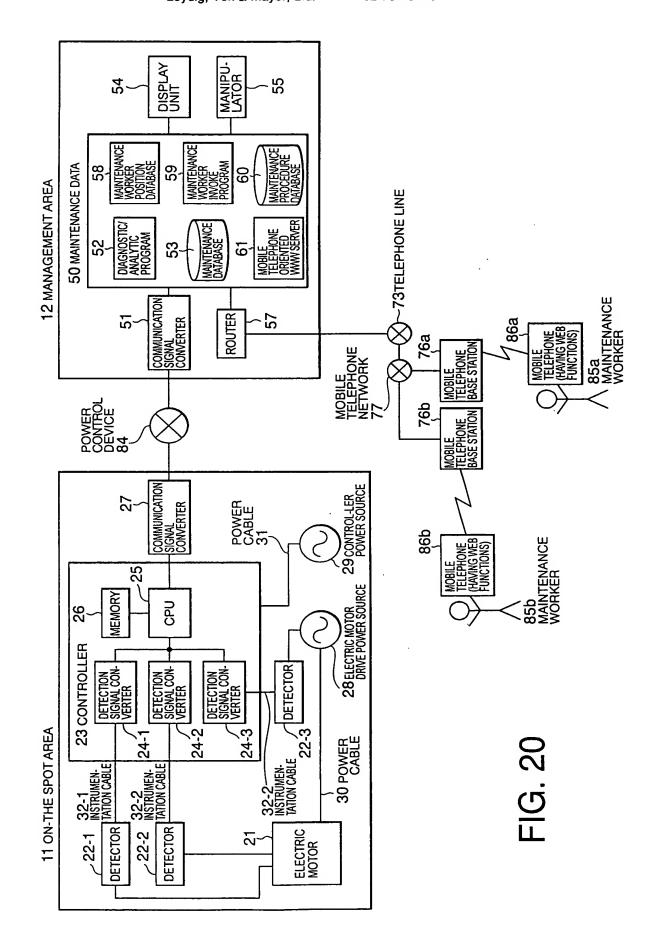


FIG. 19





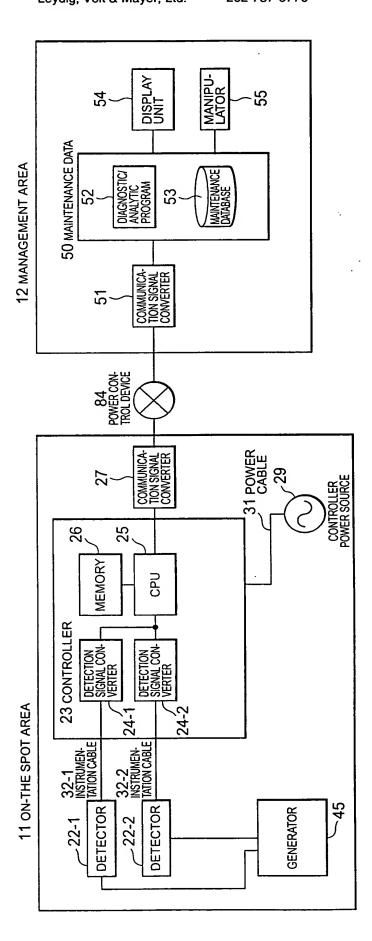


FIG. 21

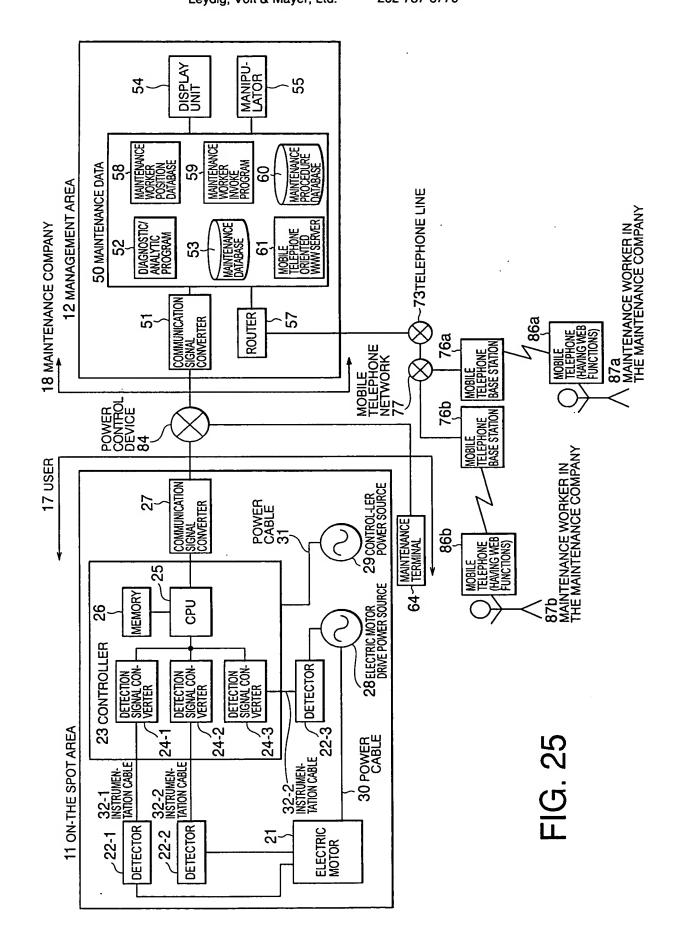
DISPLAY 50 MAINTENANCE DATA 12 MANAGEMENT AREA 5 31 POWER CABLE 25 MEMORY SP 23 CONTROLLER 11 ON-THE SPOT AREA 746 DETECTOR DETECTOR PUMP

MANIPU-LATOR DISPLAY 55 54 50 MAINTENANCE DATA 12 MANAGEMENT AREA DIAGNOSTIC/ ANALYTIC PROGRAM 52 18 MAINTENANCE COMPANY COMMUNICATION SIGNAL CONVERTER 5 POWER CONTROL DEVICE 84 17 USER COMMUNICATION SIGNAL CONVERTER 27 POWER CABLE 31 MAINTENANCE TERMIANL 25 28 ELECTRIC MOTOR DRIVE POWER SOURCE MEMORY CPU 23 CONTROLLER DETECTION SIGNAL CON-VERTER DETECTION SIGNAL CON-VERTER DETECTOR 11 ON-THE SPOT AREA 30 POWER CABLE 32-2-INSTRUMEN-TATION CABLE DETECTOR DETECTOR ELECTRIC MOTOR 22-2 22-1 2

FIG. 23

DISPLAY MANIPU-LATOR 54 55 DEVICE DATABASE **50 MAINTENANCE DATA** 12 MANAGEMENT AREA 18 MAINTENANCE COMPANY COMMUNICATION SIGNAL CONVERTER 51 POWER CONTROL DEVICE 84 17 USER COMMUNICATION SIGNAL CONVERTER 29 CONTROLLER POWER SOURCE 27 POWER CABLE 31 MAINTENANCE TERMIANL 25 28 ELECTRIC MOTOR DRIVE POWER SOURCE MEMORY SPU 26 23 CONTROLLER DETECTION SIGNAL CON-VERTER DETECTOR 11 ON-THE SPOT AREA 30 POWER CABLE 32-2-INSTRUMEN-TATION CABLE **TATION CABLE** DETECTOR ELECTRIC MOTOR DETECTOR 7

FIG. 24



DISPLAY UNIT MANIPU-LATOR 55 54 COMPONENT DATABASE 50 MAINTENANCE DATA 12 MANAGEMENT AREA 18 MAINTENANCE COMPANY COMMUNICATION 51 POWER CONTROL DEVICE 84 17 USER COMMUNICATION SIGNAL CONVERTER 29 CONTROLLER POWER SOURCE 27 POWER CABLE 31 MAINTENANCE TERMIANL 25 28 ELECTRIC MOTOR DRIVE POWER SOURCE MEMORY S 23 CONTROLLER DETECTION SIGNAL CON-VERTER DETECTOR DETECTION SIGNAL CON-VERTER 11 ON-THE SPOT AREA 30 POWER CABLE 32-2-INSTRUMEN-TATION CABLE 32-1 INSTRUMEN-TATION CABLE DETECTOR ELECTRIC MOTOR DETECTOR ,22-2 7

FIG. 26

MANIPULATOR 55 54 DISPLAY UNIT 50 MAINTENANCE DATA 12 MANAGEMENT AREA DIAGNOSTIC/ ANALYTIC PROGRAM 101 11 ON-THE SPOT AREA 52 2 DETECTOR ELECTRIC MOTOR